

**वार्षिक प्रतिवेदन**  
**2020-2021**

**ANNUAL REPORT**  
**2020-2021**



**प्लाज़्मा अनुसंधान संस्थान**  
**Institute for Plasma Research**

भाट, इंदिरा पुल के पास, गांधीनगर - 382 428 (भारत)

Bhat, Near Indira Bridge, Gandhinagar 382 428, Gujarat (India)

Neelanjana Buzarbaruah, gave a webinar on “Experimental Studies on Discharge Plasma in Cylindrical IEC Fusion Device” at 3rd National Conference on Recent Advances in Science and Technology 2020, and received **Best participant award** on 17 August 2020

Shishir P. Deshpande has been appointed on the **Board of Editors** of the Journal “Nuclear Fusion” until December 2023 (Announced on 16-9-2020)

Mr. Abhishek Saraswat gave a talk on “Experimental investigations on bubble detection in water-air two-phase vertical columns” at 2nd International Conference on Recent Advances in Mechanical Engineering (RAME-2020), Delhi Technological University (DTU), awarded **2nd Prize under Best Paper Awards** category and also a **Best Presenter award** for Technical Session-2 on 18th September 2020

Mainak Bandyopadhyay, Jervis R Mendonca and Shantanu Kumar Karkari were Awarded **IOP Trusted Reviewer**. ‘IOP trusted reviewer’ status will be achieved following the submission of a top-quality review report, as graded by our experienced editors. It indicates a high level of peer review competence and the ability to constructively critique scientific literature to an exceptional standard. (For more information: <https://iopublishing.org/peer-review-excellence/>) (Announced on 23-9-2020)

Shantanu Kumar Karkari gave an invited talk on “Negative Ion Research in Laboratory Devices: Physics and Modeling” at the e-Conference: 4th Asia-Pacific Conference on Plasma Physics (AAPPS-DPP2020) on 27 October 2020, and have received an **appreciation award** (USD 250) from the conference organizers for presenting this talk

Shashi Kant Verma, received **Young Researcher Award 2020** from Institute of Scholars (InSc2020) experimental investigation of effect of spacer single phase turbulent mixing rate on simulated subchannel of AHWR published in Annals of Nuclear Energy, December 2017 issue

The presentation entitled “Manufacturing and Assembly of ITER Cryostat Welding Challenges and Experiences” by Mitul Patel et. al., at the International Congress-2020 (IC-2020), CIDCO Exhibition Centre, Navi Mumbai, 6-8th February 2020, has been adjudged as the winner of **ESAB India Award-2020** for the best paper across all categories. The Award is a cash prize of Rs. 30,000/- for the team. The Award will be handed over during the inaugural ceremony of National Welding Seminar 2020-21 to be held at Vadodara, Gujarat, on 8th of April 2021

#### E 4. INVITED TALK DELIVERED BY IPR STAFF

##### S. SUNIL

Gave a live YouTube lecture entitled “Operating Parameters of Laser Interferometer Gravitational wave Observatory (LIGO)” on 24th April 2020. The lecture series was organized by the LIGO India Education and Public Outreach group under GW@Home - A LIGO India Initiative: An Online lecture series

Gave a webinar on “An Introduction to LIGO: Challenges and Opportunities” organized by Sathyabama Institute of Science and Technology, Chennai on 3 June 2020

##### MUKESH RANJAN

Gave a webinar on “Plasma and its Application” in a webinar series about Conceptual and Applied Physics, jointly organized by Department of Physics, Saurashtra University, Rajkot, 5-8 May 2020

Gave a webinar on “Plasma for Plasmonics” Amity University, Noida, on 13 May 2020

Gave a webinar on “Plasma and its Industrial Application” at a webinar “Prospective of Interdisciplinary Research in Science and Technology in the Present Scenario” organized by Department of Physics, Ch. Charan Singh University, Meerut, UP, on 16 May 2020

Gave an invited talk on “Plasmonics for SERS and Solar Cell Application” at Recent Advances in Optical and Magnetic Materials, NIT Uttarakhand, 14-18 December 2020

##### CHIRAG SEDANI

Gave a webinar on “Nuclear Science & Technology” organized by Mechanical Engineering Department, R. N. G. Patel Institute of Technology, Bardoli. Surat, on 26 May 2020

##### SHASHIKANT VERMA

Gave a webinar on “Introduction to CFD and career opportunities in CFD for UG Students” organized by Bharati Vidyapeeth’s College of Engineering, Pune, on 26 May 2020